



Heavens-Piercing Drill

by Arya Akhavan (May 2013)

Angles for R.I. = 1.540

89 + 16 girdles = 105 facets

8-fold, mirror-image symmetry

96 index

$L/W = 1.000$ $T/W = 0.363$ $U/W = 0.363$

$P/W = 0.472$ $C/W = 0.241$

$Vol./W^3 = 0.237$

PAVILION

P1	48.56°	05-07-17-19-29-31-41-43-53-55-65-67-77-79-89-91	Cut to centerpoint.
G1	90.00°	05-07-17-19-29-31-41-43-53-55-65-67-77-79-89-91	Set stone size.
P2	43.50°	96-12-24-36-48-60-72-84	Meet P1, G1
P3	47.67°	06-18-30-42-54-66-78-90	Meet P1, G1
P4	43.00°	01-11-13-23-25-35-37-47-49-59-61-71-73-83-85-95	Meet P1, P2, P3

CROWN

C1	53.93°	05-07-17-19-29-31-41-43-53-55-65-67-77-79-89-91	Set girdle width.
C2	49.07°	06-18-30-42-54-66-78-90	Meet G1, C1
C3	32.00°	96-12-24-36-48-60-72-84	Meet C1, C2
C4	25.56°	06-18-30-42-54-66-78-90	Meet C2, C3
T	0.00°	Table	Meet C3, C4

Here's a variant on the "Shuriken" design, written for paler materials. It has a very similar crown and a semi-barion pavilion, and is written specifically for paler materials like lavender spinel, although it is a flexible design. Works in materials from quartz to rutile (RI = 1.54 - 2.62) with no changes, but I prefer it in pale spinel.

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